Attorney Docket No.:

RU-0075

Inventors:

Anderson and Montelione

Serial No.:

09/181,601

Filing Date: Page 2

October 29, 1998

In the Claims:

Please cancel claims 2 and 17 without prejudice.

Please amend the claims as follows:

- 1. (Four Times Amended) A high-throughput method for determining the biochemical function of a protein or polypeptide domain of unknown three dimensional structure and function comprising:
 - (A) parsing a target polynucleotide into at least one putative polypeptide domain;
 - (B) identifying a putative polypeptide domain consisting of 50 to 300 amino acids that properly folds into a stable polypeptide domain consisting of 50 to 300 amino acids;
 - (C) determining three dimensional structure of the stable polypeptide domain;
 - (D) comparing the determined three dimensional structure of the stable polypeptide domain to known three-dimensional structures in a protein data bank, wherein said comparison identifies known structures within said protein data bank that are